



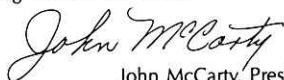
BURRIS

Product Guide



On behalf of every member of the Burris team, I would like to thank you for choosing one of our products. It means a great deal that you have trusted your next shot to us. With that in mind, we have made every effort to build a scope that will never let you down. The finest materials, the most advanced technology and generations of experience have come together to make Burris the best scope you can buy, regardless of price.

As you carry your new scope into the field or to the range, carry with it the confidence it is up to any challenge. Take heart that it was designed and manufactured in America by people who also take the shooting sports very seriously. At Burris, we all realize that our company's future is only as good as your next shot. Thanks again for trusting that shot to Burris.



John McCarty, President

TABLE OF CONTENTS

Signature Series	3
Posi-Lock	4
Fullfield Scopes	6
Compact Scopes	7
Handgun Scopes	8
Rimfire/Airgun Scopes	9
4X-12X Rimfire/Airgun	10
8X-32X Rimfire/Airgun	11
Models with Parallax Adjustment	12
Target Knobs & Light Collector	13
Adjustment Graduations	14
Mounting and Focusing	15
Sighting In	16
Service & Care	18
Warranty	20

SIGNATURE SERIES



Burris Signature Series are the finest scopes you can buy, regardless of price. Incorporating a state-of-the-art optical system, these scopes produce the brightest and sharpest image possible, especially in low light. They will meet the challenges of any hunt and remain on target, thanks to the finest materials, tight tolerances, hand assembly and internal lenses 40% larger than most other scopes. The 3X-12X, 6X-24X and 8X-32X models incorporate the Light Collector (page 13). This patented feature allows the shooter to control the amount of light entering the scope, reducing glare at midday and providing the brightest possible image at dawn and dusk. Signatures come in a wide variety of fixed and variable power models, and in finishes which compliment any rifle. The revolutionary Posi-Lock adjusting system is an option on all Signature variables (see page 4).

Other features include:

- Hi-Lume multicoated lenses for the brightest images
- Fullfield wide angle field of view for quick sighting
- Steel-on-steel click adjustments for precise shooting
- Hard-anodized one piece outer tube for beauty and strength
- 100% made in America
- Lifetime warranty
- 2.5X-10X, 3X-12X, 4X-16X, 6X-24X and 8X-32X models have parallax adjustment.
- 1.5X-6X, 2X-8X, 2.5X-10X, 3X-12X, 4X-16X, 6X-24X and 8X-32X models have four-times power change.

Posi-Lock Adjusting System

All scopes have adjustments which allow the shooter to sight in. When dials on the outside of the scope are turned, a tube housing the internal lens system pivots until it points at exactly the same place the bullet will strike. This assembly, which must move so adjustments can be made, is held in position by springs.

Spring tension is the weak link in scope design because it allows the tube to move during recoil. If the tube does not return to exactly the same position each time the gun is fired, the crosshair aims at a different point. This causes group size to grow, and increases the likelihood of a miss.

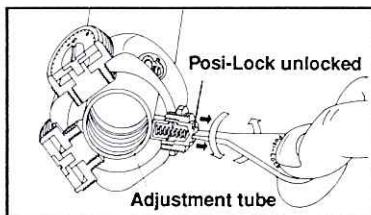
Recoil isn't the only enemy of this spring system. Temperature changes, rough hunting use, clearance in the adjustment knob threads and weakening of the springs over time can also cause a shift in point of aim. Even though Burris already offers the most secure adjusting system on the market, we weren't satisfied. Now we proudly introduce an adjusting system that positively locks the tube after sight in. Posi-Lock is here, and all other adjusting systems are now obsolete.

Posi-Lock (pat. pend.) replaces the springs of a conventional adjusting system with a retractable steel post. To sight in simply loosen the Posi-Lock screw, make the necessary adjustments then tighten the Posi-Lock screw, locking them in. Posi-Lock guarantees that point of aim will never shift, for any reason, even under the toughest conditions. It is available as an option on most Signatures, Fullfields and Handgun scopes.

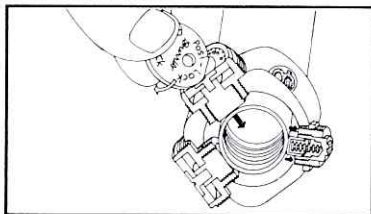
Posi-Lock is an insurance policy for accuracy. No more making adjustments and wondering if the scope has responded. Never again will you go to the range and find your scope has changed point of aim. Recoil, temperature changes, saddle scabbards, bumps and falls are no longer a problem for your scope. With Posi-Lock your gun will stay sighted in until you want it to change.

The Advantages Of Posi-Lock

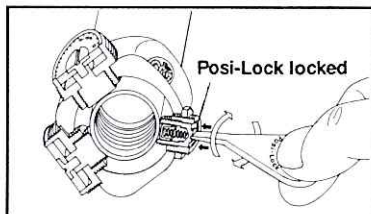
1. Guarantees your scope will stay sighted in.
2. Insures fully-responsive sighting adjustments.
3. Reduces the effect recoil has on your scope.



As you loosen the Posi-Lock screw, the steel post locking the tube against the adjustment knobs is retracted.



Adjustments are made with precise steel-on-steel clicks.



Tightening the Posi-Lock screw returns the steel post to position and locks in the adjustment. Now you can shoot with confidence.

FULLFIELD



Fullfield is the scope that built the Burris reputation. It was the first American scope to offer multi-coated lenses and positive steel-on-steel click adjustments. It got its name from being the first to have a full wide angle field of view. It earns its keep by being the best value in a hunting scope you can find. Fullfields have been tested and proven around the world by two generations of hunters. They are up to any challenge, including your next hunt.

Other features include:

- Hi-Lume multicoated lenses for the brightest images
- Fullfield wide angle field of view for quick sighting
- Steel-on-steel click adjustments for precise shooting
- Hard-anodized one piece outer tube for beauty and strength
- 100% made in America
- Lifetime warranty
- Automatic range-compensating model available (RAC).
- Posi-Lock (page 4-5) is an option on the 1.75X-5X, 3X-9X and 3.5X-10X-50mm models.

COMPACT



Burris was the first company to offer scopes specifically designed for compact rifles. That was over ten years ago. Burris didn't take a full-size scope and shrink it either. We started over, and developed a new lens system that delivered the bright images and field of view of many larger scopes. We have learned a great deal about these little scopes since we started, and today our Compacts are better than ever. Like the rifles they are designed for, they are ready for anything.

In reality, small scopes need to be tougher than full-size scopes. They are usually mounted on light rifles that have more recoil. And since these rifles are designed specifically for hunting, they get used hard. Burris Compacts are made for just this kind of use. They have all the tough you will ever need built right in.

Other features include:

- Steel-on-steel click adjustments for precise shooting
- Hard-anodized one piece outer tube for beauty and strength
- Extra eye relief for quick sight picture and forward mounting
- Lifetime warranty
- 100% made in America

HANDGUN SCOPES



Handgunning is the fastest growing segment of the shooting sports. That might be a surprise to some folks who make scopes, but not to the guys at Burris. We have an unfair advantage over other companies though, because a bunch of us have been hunting, varminting and seriously shooting handguns for years. We understand the tremendous challenge that handgunning offers the hunter and shooter, and the level of accuracy a good handgun is capable of. Given that, you won't be surprised to learn that Burris made the first variable handgun scope, the first with adjustable parallax or the first with silhouette knobs. We also make the ones with the highest magnification. And you won't be surprised to learn that we make the best handgun scopes you can buy.

Balancing eye relief, field of view and power is even more critical to handgun scopes than rifle scopes. Because the engineers at Burris did their homework, you can be assured that any handgun scope with our name on it won't let you down. No other scope even comes close.

Features include:

- Steel-on-steel click adjustments for precise shooting
- Hard-anodized one piece outer tube for beauty and strength
- Generous eye relief and wide field of view
- Lifetime warranty
- 100% made in America
- Posi-Lock (page 4-5) is an option on the 2X, 4X, 1.5X-4X, 2X-7X and 3X-9X models.

RIMFIRE / AIRGUN SCOPES



A good rimfire or air rifle is capable of incredible accuracy. And just like big game rifles, to discover this accuracy you need a good scope. If that scope is clear and bright, has precise adjustments and is properly designed, it will offer a lifetime of service and help the rifle reach its accuracy potential. That is exactly what you can expect from Burris Rimfire/Airgun scopes.

Every Burris Rimfire/Airgun scope is built to the same exact specifications as the ones we make for centerfire rifles. The only difference is the parallax setting adjustment range is closer, within the distances common for this type of shooting. Not only does this feature let you remove all reticle movement caused by parallax, it also lets you accurately determine distance to the target, something especially beneficial to the airgun shooter. Additionally, the double recoil of spring piston airguns is no problem for any Burris scope.

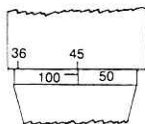
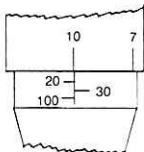
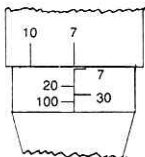
Features include:

- Steel-on-steel click adjustments for precise shooting
- Hard-anodized one piece outer tube for beauty and strength
- Lifetime warranty
- 100% made in America

4X-12X RIMFIRE /AIRGUN



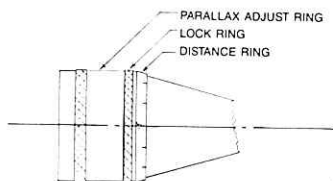
To correct the parallax error for the full range of distance from 7 yards to 100 yards, the parallax adjust ring must be rotated almost 4 complete revolutions. To determine the correct adjustment distance you must observe the numbers exposed on the bell by the bottom edge of the adjust ring. If 100 is the only number exposed you are on the first revolution and aligning one of the numbers with a **short** hash mark between 30 and 100 will correct parallax at approximately that distance. Correcting parallax error from 30 yards down to 20 yards requires slightly over $\frac{1}{4}$ turn but it takes almost a complete turn to get from 20 yards to 10 yards and 10 yards to 7 yards. When setting these distances align the yardage mark on the parallax adjust ring with the line on the bell. The edge of the parallax adjust ring should just expose the corresponding mark on the bell.



8X-32X RIMFIRE / AIRGUN



After the 8X-32X has been mounted and sighted in the parallax adjust ring will probably need to be reset. As you adjust the windage and elevation knobs, the optical light path is moved off center line of the scope. This changes the length of the light path causing the image to form slightly forward of the reticle. This causes parallax. To correct this, look through the scope at a target at a known distance (preferably a distance you shoot frequently). Adjust the parallax distance tube until the crosshairs are steady on the target as you move your eye off axis in the exit pupil. When this is set, hold the parallax distance tube firmly and loosen the lock ring (see diagram). Hold the parallax distance tube and rotate the distance ring until the correct yardage is aligned with the mark, then tighten the lock ring and re-check the parallax. This should eliminate parallax in your scope as long as you do not use excessive windage or elevation adjustments.



USING SCOPES WITH ADJUSTABLE PARALLAX



Scopes with Adjustable Parallax perform more precisely than scopes without this feature. Extra care in assembly and testing of these models is standard procedure at Burris.

The adjusting ring on the objective bell allows the shooter to remove parallax at almost any distance. In high magnification scopes parallax is more pronounced and can cause aiming errors. To use the parallax adjustment, rotate the knurled sleeve on the objective bell until the numeral corresponding the target distance appears. This movement causes the objective lens to move in or out and remove any parallax which exists. (In any non-adjustable scope, parallax can only be "0" at one range. Most scopes are set to be parallax free at 100 yards at the factory).

When using higher magnification scopes, remember to use a rigid ring and mount system like the Burris. Since these scopes tend to have a longer objective bell, this "overhang" must be protected from pressure and sharp blows. Mounting the scope as near as possible to the eye, consistent with adequate eye relief and safety, is recommended. This allows the front ring to fully support the scope. Consider using Burris Extension Bases, which permit mounting the front ring an inch further forward and support the scope better. These bases fit Remington 700s, Winchester 70s and most FN Mausers.

USING TARGET KNOBS AND THE LIGHT COLLECTOR



TARGET KNOBS

Target knobs allow the shooter to make quick, precise adjustments for both windage and elevation. Frequently found on high magnification scopes used for target shooting and varminting, these knobs may be reset to zero after sighting in. This is accomplished by loosening the set screws located on the side of the knob. Once loosened, simply turn the outer knob to zero and retighten the screws. A note of caution, do not over-tighten these screws as damage could result. Target knobs can be fitted to almost any Burris scope, even after it is shipped from the factory. The cost for this service as of January 1, 1994 is \$70. (Price is subject to change without notice.)

LIGHT COLLECTOR

The Light Collector, found on the 3X-12X, 4X-16X, 6X-24X and 8X-32X Signatures, allows the shooter to control the amount of light entering the scope. This adjustment gives the best possible sight picture during all light conditions. During times of low light, the Light Collector ring should be turned toward "Twilight," allowing the maximum amount of light to enter the scope. During midday, when conditions are too bright and glaring, turning the ring toward "Daylight" reduces the amount of light entering the scope. The Light Collector is fully adjustable, allowing the shooter to obtain the finest sight picture possible under all conditions.

HORIZONTAL & VERTICAL ADJUSTMENTS

	Model	Dial Graduations (in./100 yds)	Each Click Moves Point of Aim	Maximum Adjustment (in./100 yds)
SIGNATURE SERIES	4X	.5	.5	60
	6X	.5	.25	60
	1.5X-6X	.5	.5	110
	2X-8X	.33	.33	80
	3X-9X	.5	.25	50
	2.5X-10X	.25	.25	50
	3X-12X	.5	.25	45
	4X-16X	.25	.25	40
	6X-24X	.125	.125	26
	8X-32X	.125	.125	26
FULLFIELD SCOPES	8X-32X R/A	.25	.25	26
	1X XER	.5	.5	196
	1.5X Shotgun	.5	.5	80
	2.5X Shotgun	.5	.5	60
	4X	.5	.5	80
	6X	.5	.5	60
	12X	.25	.25	40
	1X-4X XER	.5	.5	129
	1.75X-5X	.5	.5	70
	2X-7X	.5	.5	60
	3X-9X	.5	.25	50
	3.5X-10X-50mm	.5	.25	55
	4X-12X	.25	.25	45
	6X-18X	.25	.125	34
COMPACT SCOPES	4X	.5	.5	90
	6X	.5	.5	60
	6XHBR	.125	.125	60
	2X-7X	.5	.25	60
	3X-9X	.5	.25	50
HANDGUN SCOPES	4X-12X	.25	.125	40
	1X	.66	.66	100
	2X	.5	.5	80
	3X	.5	.5	80
	4X	.5	.5	60
	7X	.25	.25	48
	10X	.25	.125	30
	1.5X-4X	.25	.25	48
	2X-7X	.25	.25	64
	3X-9X	.125	.125	30
SCOUT SCOPES	1.5X	.5	.5	90
	2.75X	.5	.5	90

MOUNTING AND FOCUSING

When mounting a scope, exercise care to obtain the best possible results and avoid damage to the scope and firearm. Burris strongly recommends using a ring and base system machined from solid steel. These components ensure that your scope will remain safely and securely mounted, and will provide the maximum accuracy. Therefore, we recommend Burris steel rings and mounts.

1. Read the manufacturers directions regarding the installation of mounts and rings before beginning.
2. Clean the mounting area of the rifle with a chemical that removes grease and oil. Pay special attention to screw holes. Using the same chemical, clean the rings, mounts and scope tube. Do not allow the cleaning chemical to come in contact with the stock or scope lenses.
3. After installing the mounts and rings, and making sure they are in proper alignment, position the scope so it offers the proper eye relief. To do this, shoulder the rifle as you would in the field. Position the scope as far forward as possible that it still gives a full field of view. Check to make sure the reticle is aligned vertically and horizontally.
4. When the scope is properly positioned, tighten the rings evenly and securely. Make sure not to overtighten, as the screws could break off in the rings.

To focus the scope for your eye, follow these simple steps:

1. Loosen the eyepiece lock ring.
2. Rotate the eyepiece counter clockwise five turns.
3. Look through the scope toward the sky, or at a white wall about 10' away. Rotate the eyepiece clockwise until the reticle appears sharp and black at a quick glance. Do not look through the scope as you turn the eyepiece, as your eye will adjust to the out-of-focus condition. Glancing through the scope will immediately reveal the reticle as distinctive and black when it is properly focused.
4. Lock the eyepiece in place by tightening the lock ring.

SIGHTING IN

All shooting should be done in a safe, authorized area. Shooters should use proper eye and hearing protection and follow all safe shooting rules.

Select the ammunition you intend to use in the field and use it to sight in the firearm. Different ammunition exhibits different trajectories, therefore different adjustments are necessary.

1. Bore sight your scope, OR place a target about two feet square at a distance of twenty five yards. From a comfortable and secure position fire a shot at the bullseye. Note the point of impact and make the necessary adjustments. Remember, a scope with a click adjustment value of $\frac{1}{2}$ " at 100 yards will require four clicks to move the same distance at 25 yards. Burris scopes have their click values indicated on a sticker under one of the turret caps (page 15).
2. If the shot at 25 yards is more than two inches right or left of the bullseye, the windage screws on a Burris mount base can be used to bring the scope closer to zero. Only minor adjustments are usually required, and these should be made using the windage and elevation adjustments. To make adjustments, simply turn the adjusting screws the necessary number of clicks. (See page 4 for additional instructions for Posi-Lock models).

NOTE: The reticle, or crosshair is centered at the factory. This permits adjusting the reticle equally in all directions from the center position. Three shot groups are suggested to determine the actual point of impact. Careful shooting gives better results.

3. After the first group is fired, adjust the scope again. This adjustment should bring the approximate center of the group to coincide with the bullseye. Shoot additional groups as necessary to find the zero at 25 yards.
4. Place the target at a distance of 100 yards and recheck the zero. Make the necessary adjustment so your group impacts the target at the point that maximizes your trajectory.
5. After making the adjustments, replace the adjustment caps. They protect your scope from dust and moisture.

SERVICE & CARE

SERVICE

Burris takes pride in the quality reputation we have built over the years. You will find the same quality in our customer service should you ever require it.

Things you should check before returning the scope:

A significant number of scopes are returned to Burris each year that are found to be perfectly functional. To avoid unnecessary delays and expenses we encourage you to check for the following conditions:

Insufficient windage adjustment

- Base mounting holes drilled out of alignment with center of bore
- Barrel threaded into receiver at an angle
- Scope tube bent at bell or eyepiece

Solution—Use Burris universal bases with windage adjustment to correct any alignment problem. Bent tube must be returned to factory for non-warranty repair.

Insufficient elevation adjustment

- Receiver diameter out of specification
- Barrel threaded in at an angle
- Scope tube bent

Solution—Receiver or barrel problems will require shimming. .001 will move point of impact approximately one half inch at 100 yards. Bent tube must be returned to the factory for non-warranty repair.

Grouping or accuracy

- Barrel or chamber throat erosion
- Stock warpage
- Bedding problem
- Loose mount
- Heavy trigger pull

Solution—Consult with competent gunsmith

Focus or image not clear

- Object too close
- Eyepiece out of focus
- Parallax adjustment not set correctly

Solution—Read instructions on how to focus reticle and parallax adjustments.

When returning the scope be sure to include:

1. Complete name and full address
2. Include a short note describing the nature of the problem as accurately as possible.
3. Ship the scope prepaid by mail or parcel service.
4. Insure the shipment against loss.

Send the scope to the following address:

Burris Company, Inc.		Canada
331 E. 8th Street		Trace Scope Repairs
P.O. Box 1747	OR	11915-132 Ave.
Greeley, Colorado 80632		Edmonton, Alberta T5E 1A8

This booklet is for reference only and is subject to change without notice.

CARE

Your Burris scope will provide a lifetime of service if given the reasonable care and treatment it deserves. When traveling, keep your firearm cased. Use lens covers to protect the scope from dirt and moisture. Keep the eyepiece and turret caps tight. Before cleaning the lenses, brush them with a photographer's brush or blow them clean. This removes large particles which can scratch the surface if wiped under pressure.

Never disassemble your scope. Disassembly by anyone other than our factory will void the warranty. If you have any problems with any Burris product, let us fix it.

Burris Lifetime Warranty

Burris warrants every product to be free of defects in materials and workmanship for life, even if you are not the original owner.

We will, at our option, repair or replace any Burris product providing our examination reveals a defect and does not disclose evidence of abuse, damage caused by improper handling or installation, improper maintenance or unauthorized repair attempts.

All Burris products to be repaired under warranty must be returned to Burris, 331 E. 8th Street, Greeley, Colorado 80631. Shipping charges should be prepaid by the owner.

There are no other warranties, either expressed or implied, contained herein except for such that may arise under certain state laws. In that event, said implied warranties, are limited in scope and duration to the terms of this warranty. Burris is not liable for incidental or consequential damages including but not limited to lost profits or other economic or commercial losses. This warranty gives the owner certain legal rights, and possibly other rights which may vary from state to state.

Under the guidelines of the Consumer Protection Agency,
this is considered to be a limited warranty.